

# MICRO CHAOTIC MIXER

## ABSTRACT OF THE DISCLOSURE

[0053] A micro mixer for use in a microdevice which utilizes time-varying force fields to induce bulk fluid and/or sample component motion leading to homogenization of sample components. Time-varying force fields employed includes at least one of a physical displacement field, electrical field, pressure field or magnetic field to generate transverse forces which induce the mixing of samples within the micro mixer.